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Amendments to the Claims:

Please amend the claims as follows:

Claim 1 (Currently amended): A metering pump system for metering and pumping a

metered volume of a fluid product having:

(a) a storage chamber for storing the fluid product in;

(b) a metering chamber which is movable between a contracted state and an expanded

state, wherein the system is adapted such that movement of the metering chamber from

its contracted state to its expanded state results in the metering chamber being placed in

fluid communication with the storage chamber to enable the metering chamber to receive

an excess volume of the fluid product comprising the metered volume and a surplus

volume from the storage chamber and movement of the metering chamber from its

expanded state to its contracted state causes the metered volume to be pumped from the

metering chamber;

(c) a bleed mechanism for bleeding the surplus volume from the metering chamber as

it moves from the expanded state to the contracted state; and

(d) an inlet valve mechanism which is disposed between the storage and metering

chambers and movable between an open state, to permit flow of the fluid product from the storage chamber to the metering chamber through the inlet valve mechanism, and a

closed state, to prevent flow of the fluid product between the storage and metering

chambers through the inlet valve mechanism;

wherein:

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when the metering chamber moves from the contracted state to its expanded state.

Claim 2 (Currently amended): A metering pump system for metering and pumping a

metered volume of a fluid product having:

(a) a storage chamber for storing the fluid product in;

(b) a metering chamber which is movable between a contracted state and an expanded

state, wherein the system is adapted such that movement of the metering chamber from

its contracted state to its expanded state results in a negative pressure being created in the

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metering chamber which is sufficient to draw an excess volume of the fluid product comprising the metered volume and a surplus volume from the storage chamber into the metering chamber and movement of the metering chamber from its expanded state to its contracted state causes the metered volume to be pumped from the metering chamber:

- a bleed mechanism for bleeding the surplus volume from the metering chamber as
 it moves from the expanded state to the contracted state; and
- (d) an inlet valve mechanism which is disposed between the storage and metering chambers and movable between an open state, to permit flow of the fluid product from the storage chamber to the metering chamber through the inlet valve mechanism, and a closed state, to prevent flow of the fluid product between the storage and metering chambers through the inlet valve mechanism;

wherein:

(e) the inlet valve mechanism is adapted such that the negative pressure created in the metering chamber on movement thereof from its contracted state to its expanded state is able to move the inlet valve mechanism from its closed state to its open state.

Claim 3 (Currently amended): A metering pump system for metering and pumping a metered volume of a fluid product having:

- (a) a storage chamber for storing the fluid product in;
- (b) a metering chamber which is movable between a contracted state and an expanded state, wherein the system is adapted such that movement of the metering chamber from its contracted state to its expanded state results in the metering chamber being placed in fluid communication with the storage chamber to enable the metering chamber to receive an excess volume of the fluid product comprising the metered volume and a surplus volume from the storage chamber and movement of the metering chamber from its expanded state to its contracted state causes the metered volume to be pumped from the metering chamber and further wherein the metering chamber has at least one transfer port through which, in use, the fluid product flows from the storage chamber to the metering chamber when the metering chamber moves from its contracted state to its expanded state:

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(c) a bleed mechanism for bleeding the surplus volume from the metering chamber as it moves from the expanded state to the contracted state; and

(d) an inlet valve mechanism which is disposed between the storage and metering chambers and movable between an open state, to permit flow of the fluid product from

the storage chamber to the metering chamber through the inlet valve mechanism, and a

closed state, to prevent flow of the fluid product between the storage and metering

chambers through the inlet valve mechanism;

wherein the inlet valve mechanism:-

(e) is associated with an inlet port of the metering chamber, and

(f) is adapted in use to move from its closed state to its open state when the metering

chamber moves from its contracted state to its expanded state to enable the fluid product

to flow from the storage chamber into the metering chamber through the inlet port.

Claim 4 (Currently amended): The system of claim 1 adapted such that when the

metering chamber moves from the contracted state to the expanded state a negative

pressure is created in the metering chamber which is sufficient to draw the fluid product from the storage chamber into the metering chamber and/or move the inlet valve

mechanism from its closed state to its open state.

Claim 5 (Currently amended): The system of claim 1, wherein the metering chamber is

sealed in the contracted state.

Claim 6 (Currently amended): The system of claim 1, wherein the metering chamber has

at least one transfer port through which fluid product is able to be transferred from the storage chamber to the metering chamber when the metering chamber moves to its

expanded state and wherein the inlet valve mechanism is not associated with the at least

one transfer port.

Claim 7 (Currently amended): The system of claim 6 3, wherein the metering chamber

has an intermediate volumetric state between its contracted and expanded states, wherein

the system is adapted such that the at least one transfer port is closed, so that no fluid

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product is transferable therethrough from the storage chamber to the metering chamber,

when the metering chamber moves from the contracted state to the intermediate state and

wherein the inlet valve mechanism is adapted to open when the metering chamber moves

from the contracted state to the intermediate state.

Claim 8 (Currently amended): The system of claim 7 adapted such that the at least one

transfer port is closed when the metering chamber moves from the intermediate

volumetric state to the contracted state.

Claim 9 (Currently amended): The system of claim 1 in which the inlet valve mechanism

is adapted in use to open in an initial phase of the movement of the metering chamber

from its contracted state to its expanded state.

Claim 10 (Currently amended): The system of claim 1 in which the metering chamber has

an outlet port through which the metered volume of the fluid product is pumped on

movement of the metering chamber from its expanded state to its contracted state.

Claim 11 (Currently amended): The system of claim 10 further having an outlet valve

mechanism associated with the outlet port which is movable from an open state, to permit

the flow of the fluid product through the outlet port, and a closed state, to prevent the

flow of the fluid product through the outlet port, wherein the outlet valve mechanism is adapted so that it remains closed except when the metering chamber moves from its

expanded state to its contracted state.

Claim 12 (Currently amended): The system of claim 11, wherein the metering chamber

has an intermediate volumetric state between its contracted and expanded states, wherein

the system is adapted such that the at least one transfer port is closed, so that no fluid

product is transferable therethrough from the storage chamber to the metering chamber,

when the metering chamber moves from the contracted state to the intermediate state and

wherein the inlet valve mechanism is adapted to open when the metering chamber moves

from the contracted state to the intermediate state, and wherein the outlet valve

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mechanism is only openable when the metering chamber moves from its intermediate

state to its contracted state.

Claim 13 (Canceled)

Claim 14 (Currently amended): The system of claim 1, wherein the bleed mechanism is

adapted in use to bleed the surplus volume of the fluid product back to the storage

chamber.

Claim 15 (Canceled)

Claim 16 (Currently amended): The system of claim 1, wherein the metering chamber has

an inlet port through which the fluid product is able to flow from the storage chamber to

the metering chamber and wherein the inlet valve mechanism is associated with the inlet

port for opening and closing thereof.

Claim 17 (Canceled)

Claim 18 (Currently amended): The system of claim 16, wherein the inlet valve

mechanism further has a biasing mechanism to bias the inlet valve control member to its

closing position.

Claim 19 (Currently amended): The system of claim 11, wherein the outlet valve

mechanism has an outlet valve control member which is movable from a closing position,

in which it closes the outlet port, to an opening position, in which it opens the outlet port.

Claim 20 (Currently amended): The system of claim 19, wherein the outlet valve

mechanism further has a biasing mechanism to bias the outlet valve control member to its

closing position.

Claim 21 (Currently amended): The system of claim 1 adapted such that when the inlet

valve mechanism is moved to its open state as the metering chamber moves to its

expanded state the inlet valve mechanism provides the sole flow path for the fluid

product to transfer from the storage chamber to the metering chamber.

Claim 22 (Currently amended): The system of claim 2, wherein the inlet valve

mechanism (i) has a biasing mechanism for biasing the inlet valve mechanism to its

closed state, and (ii) is adapted such that the negative pressure created in the metering chamber on movement thereof from its contracted state to its expanded state is able to

move the inlet valve mechanism from its closed state to its open state against the bias of

move the linet valve mechanism from its closed state to its open state against the bias of

the biasing mechanism.

Claim 23 (Currently amended): The system of claim 22, wherein the biasing mechanism

is such as to be able to return the inlet valve mechanism to its closed state as the pressure

in the metering chamber increases as the fluid product flows thereinto on its movement

from the contracted state to the expanded state.

Claim 24 (Canceled)

Claim 25 (Currently amended): The system of claim 6, wherein the metering chamber has

an inlet port through which the fluid product is able to flow from the storage chamber to the metering chamber and wherein the inlet valve mechanism is associated with the inlet

port for opening and closing thereof, and wherein the system is adapted such that the inlet

valve mechanism opens the inlet port before the transfer port is open.

Claim 26 (Currently amended): The system of claim 7, wherein the volume of the

metering chamber at its intermediate state is the same as, or substantially the same as, the

metered volume.

Claim 27 (Currently amended): The system of claim 1 in which the metering and storage

chambers are isolated from one another in the contracted state of the metering chamber.

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Claim 28 (Currently amended): A fluid dispenser provided with the system of claim 1.

Claim 29 (Currently amended): The dispenser of claim 28 having a dispensing outlet

through which the metered volume, in use, is pumped by the system.

Claim 30 (Currently amended): The dispenser of claim 29 in which the dispensing outlet

is provided in a nozzle.

Claim 31 (Currently amended): The dispenser of claim 30 in which the nozzle is

configured for insertion in a body cavity.

Claim 32 (Currently amended): The dispenser of claim 30, wherein the nozzle is

configured as a mouthpiece or nasal nozzle.

Claim 33 (Currently amended): The dispenser of claim 28 which is hand-held.

Claim 34 ((Currently amended): The dispenser of claim 28 having a manually-operable

actuation mechanism for actuating the metering pump system.

Claim 35 (Currently amended): The system of claim 1 having a rest condition in which

the metering chamber is in its contracted state.

Claim 36 (Currently amended): The system of claim 1 containing the fluid product.

Claim 37 (Currently amended): The system of claim 36 in which the fluid product is a

medicament.

Claims 38 - 39 (Canceled)